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Agricultural Economics Bibliography No. 28

THE STRAWBERRY INDUSTRY IN THE UNITED STATES

A Selected List of References on the Economic
Aspects of the Industry

Compiled by Esther M. Colvin,
Under the Direction of Mary G. Lacy, Librarian
Bureau of Agricultural Economics

Washington, D. C.
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INTRODUCTION

This bibliography consists of references to books, bulletins, and pamphlets dealing with the economic aspects of the strawberry industry in the United States. Periodical articles, as a rule, have been omitted. Some general references on the marketing of fruit which give statistics on strawberries have been included, but no attempt has been made to include them all.

Although, as a rule, material on the culture and varieties of the strawberry has been omitted, the bibliography includes occasional references to such publications when they have been found to contain statistical data.

Certain publications of the U. S. Department of Agriculture, U. S. Department of Commerce, and the U. S. Bureau of the Census have been described in detail as to what they contain on strawberries. In some cases complete files have been described, in others only the latest volume, or those volumes which contain a series of figures over a period of years. In any case, the student wishing earlier or more complete sets of figures should examine the whole file.

A number of publications issued periodically by State departments of agriculture or State agricultural colleges which contain statistical data on strawberries have been included. However, this list does not contain references to all such publications as a thorough search for them was not made.

Numbers following some of the entries are the call numbers used in the Library of the U. S. Department of Agriculture. The abbreviation "Pam. Coll." following some of the entries refers to the location of the reference either in the Library of the U. S. Department of Agriculture or the Library of the U. S. Bureau of Agricultural Economics.

September, 1929.

Mary G. Lacy, Librarian,
Bureau of Agricultural Economics,
U. S. Department of Agriculture.

SOURCES CONSULTED

1. Card catalogues of the following libraries:
U. S. Dept. of Agriculture. Library.
U. S. Dept. of Agriculture. Bureau of Agricultural Economics. Library.
2. Indexes:
Agricultural Index, 1916 - July, 1929.
Experiment Station Record, v.1, Sept. 1889 - v.60, no.9, June, 1929.
3. Bibliographics:
Bercaw, L. O., comp. The apple industry in the United States; a selected list of references on the economic aspects of the industry together with some references on varieties. Washington, D. C., 1927. 170p. (U. S. Dept. Agr. Bur. Agr. Econ. Agr. Econ. Bibliog. no. 19.)
This bibliography includes general references on fruit many of which give statistics on strawberries as well as apples.
Bercaw, L. O., comp. Development of commercial fruit growing in Virginia. List of references.... Washington, D. C., Feb. 21, 1925. - Typewritten.
Bercaw, L. O., comp. Labor requirements of farm products in the United States; a list of references to material published since 1922. Washington, D. C., 1929. 60p. (U. S. Dept. Agr. Bur. Agr. Econ. Agr. Econ. Bibliog. , no. 26)
Bercaw, L. O., comp. Refrigeration and cold storage; a selected list of references covering the years 1915-1924 and the early part of 1925. Washington, 1925. (U. S. Dept. Agr. Library. Bibliographical contributions, no. 10)
Day, E. L., Jacobs, Katharine, and Olcott, M. T., comp. Bibliography on the marketing of agricultural products. Washington, 1925. 56p. (U. S. Dept. Agr. Misc. Circ. 35)
The berry section only of this bibliography was examined.
Fletcher, S. W. North American varieties of the strawberry; with a bibliography of North American literature of the strawberry. Blacksburg, 1916. 126p. (Va. Agr. exp. sta. Technical bul. 11)
Rice, K. G. Bibliography on the preservation of fruits and vegetables in transit and storage, with annotations. Washington, 1922. 76p. U. S. Dept. Agr. Library, Bibliographical contributions, no.4)
U. S. Bureau of foreign and domestic commerce. Market research agencies. Washington, Govt. print. off., 1926. 81p. (Domestic commerce series no.6)

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1. Armentrout, W. W., Crosby, H. T., and Richards, H. I. Adjusting agricultural production and distribution in south central West Virginia to meet home market demands. Morgantown, 1924. 64p. (W. Va. Agr. exp. sta. Bul. 188)
Statistics on berries which include strawberries are given in the following tables: record of receipts and shipments out of selected food commodities in Charleston, twelve months ending December 31, 1923.
2. Bailey, L. H. Oswego strawberries. Ithaca, 1901, 20p. (N. Y. Cornell Agr. exp. sta. Bul. 189)
"An account of experiment with fertilizers and records of strawberry growing in the Oswego district."
Includes also the following statistical tables: express shipments of berries from Oswego Co. stations in 1896; strawberry business in 1898 as shown by the ICC car service of the American Express Co.; and comparative statement of strawberry business in 1899 and 1900.
3. Bailey, L. H. The standard cyclopedia of horticulture. N. Y., The Macmillan company, 1917. 6p. 90 C99S.
The strawberry, v.6, p.3260-3271. Deals mostly with culture of the strawberry but includes data on the cost of growing an acre of strawberries under commercial conditions in Oswego County, New York; and cost in Florida, Plant City region.
4. Baker, C. E. Strawberries. Lafayette, 1924. 20p. (Indiana. Agr. exp. sta. Bul. 200, rev.)
This bulletin is on culture and varieties with a brief section on harvesting and marketing.
5. Baker, O. E., Brooks, C. F., and Hainsworth, R. G. A graphic summary of seasonal work on farm crops. (In U. S. Dept. agr. Yearbook, 1917, p.537-589)
Includes map showing dates when picking begins and acreage for strawberries (1909).
6. Ballard, W. R. Strawberry notes. College Park, 1918. p.51-76. (Md. Agr. exp. sta. Bul. 211)
In addition to general information on the cultivation and varieties of strawberries, statistics showing yields per acre, by varieties, are given.

7. Barnett, R. J. Strawberry growing in Kansas. Manhattan, 1925. 16p. (Kans. Agr. exp. sta. Circ. 116). Discusses the varieties of strawberries suitable for Kansas, their culture, harvesting, shipping and marketing.
8. Bergman, H. F. Observations on the accumulation of carbon dioxide from strawberries in refrigerator cars. (In Science, n.s. v.53, no.1358, Jan. 7, 1921, p. 23-24)
9. Binford, E. E. Strawberries under irrigation in south Texas. College Station, 1913. 13 p. (Texas Agr. exp. sta. Circ. n.s., 1) Gives methods of cultivation, varieties suitable for the region, and brief rules for picking and packing.
10. Blacknall, O. W. Picking, packing and marketing strawberries. (Va. state horticultural society, Report. 1902, p.69-75). 81 V81
11. Brannen, C. O., and Dickey, J. A. Strawberry production and marketing in Arkansas. Fayetteville, 1927. 27p.. (Ark. agr. exp. sta. Bul. 218) Includes tables showing: commercial acreage, production and farm values of strawberries in Arkansas, 1918-1926; average acreage, production and price of strawberries, all states, 1921-1925; chief costs in producing strawberries in Arkansas, by districts and freight, and refrigeration charges per crate on fresh strawberries, January 1, 1927.
12. Brickerley, W. G. Modern marketing and storage methods for fruits and vegetables. Pullman, State College of Washington, 1913. 155p. Type-written. 280.3 B76
Copy in Library, U. S. Dept. of Agriculture.
Bibliography: p. 152-155.
Thesis (M.S.)- State College of Washington.
Gives a general discussion of the subject and detailed directions for picking, sorting and grading, packing, shipping and marketing of fruits and vegetables.
Discusses also Associations, by-products of the industry and storage.
Strawberries are given in the list of commodities discussed.
13. Brooks, A. N., Watson, J. R., and Mowry, Harold. Strawberries in Florida; culture, diseases and insects. Gainesville, 1929. p.481-523. (Fla. Agr. Exp. sta. Bul. 204)
Discusses also picking and packing, shipping, and tests with pre-cooling strawberries.
14. Brosius, F. C. Strawberry inspection in Sacramento County. (In Calif. State commission of horticulture. Monthly bul., v.6, no.8, Aug. 1917, p. 334-335)
Gives data on production, packing, and average prices for the seasons of 1916 and 1917.

15. Brosius, F. C. Strawberry inspection Sacramento County, season 1918. (In Calif. State commission of horticulture. Monthly bul., v.7, no.8, Aug. 1918, p.504-506)

Strawberry condemnation, Sacramento County season 1918 (showing number of crates condemned, average price to grower, and total value).
16. Brown, G. G. Fertilizer tests for strawberries; summary of results of experiments, extending over three years, on a red-shot Parkdale loan. Corvallis. 1919. 15p. (Oreg. Agr. exp. sta. Bul. 159)

Includes section entitled: Present status of strawberry industry and recommendations.
17. Bureau of railway economics. Monthly shipments of fresh fruits and vegetables, United States. Average of the three years 1924, 1925 and 1926. Washington, D. C., Feb. 1928. 28p. (Its Bul 27)

Strawberries: p.12.
18. Bureau of railway economics. Production and movement of fruits and vegetables, United States, 1925. Washington, D. C., April, 1927. 19p. (Its Bul. 20)

Strawberries: p. 10. Includes monthly rail shipments of strawberries by states in 1925; and production, rail shipments, and unloads at 34 large markets, year 1925.
19. Bureau of railway economics. Unloads of fresh fruits and vegetables at sixty-six important consuming markets in the United States, year 1927. Washington, D. C., July, 1928. 24p. (Its Bul. 31)

Statistics containing data on strawberries are found in the following tables: relationship of unloads to shipments - year 1927; source of domestic supply of the eighteen fresh fruits and vegetables unloaded in the sixty-six markets - in carloads, year 1927; domestic unloads in sixty-six markets for the eighteen fresh fruits and vegetables - in carloads, year 1927; number of states from which the sixty-six markets receive the supply of the eighteen fresh fruits and vegetables; number of the sixty-six markets supplied by each state with the eighteen fresh fruits and vegetables - year 1927; and number of cars of strawberries unloaded in 66 large markets - year 1927.
20. Burleigh, R. A. Maine methods with strawberries. (In Market Growers Journal, v.34, no.6, Mar. 15, 1924, p. 254-256)

Gives expenses and returns.
21. Burns, E. M. How to boost one \$20,000,000 industry. (In Better Fruit, v.19, no.12, June, 1925, p.5-6, 18-20)

Refers to the commercial canning industry of the Pacific Northwest and gives grade rules for no.1 fresh fruits and berries for canning purposes, including strawberries.

22. Butz, G. C. Small fruits, their origin, culture and marketing. (Harrisburg) 1903. 65p. (Pa. Dept. agr. Bul. 111)
Discusses the harvesting and marketing of strawberries and profits in growing them.
Includes a table: total value and acreage of specified kinds of small fruits (including strawberries) in 1899, by counties.
23. California. State commission of horticulture. Review of the fruit seasons. Sacramento, 1905. (In its Biennial rept. 1st, 1903-04, p.53-75) 81 C12Rc
California fruit and vegetable pack by varieties, 1901-1903. Includes strawberries.
24. Card, D. G. The market outlook for Kentucky strawberries. Lexington, 1927. 17p. (Ky. Univ. Col. agr. Ext. div. Circ. 204)
Contains the following tables: strawberry acreage (1922-1927), membership (1925-1926), and carload shipments (1925-1926) of associations in Kentucky; strawberry acreage and carload shipments (1924-1926); and commercial strawberry acreage, by groups of states (1917-1927)
25. Chandler, W. H. Commercial fertilizers for strawberries. Columbia, 1913. 305p. (Mo. Agr. exp. sta. Bul. 113)
Gives the results of some experiments with fertilizers on strawberries made by the Agricultural Experiment Station in Jasper County. Includes statements of the cost of growing berries, the cost of applying phosphorus and the cost of marketing.
26. Christensen, A. C. Marketing Michigan strawberries. (In Wisconsin state horticultural society. Proceedings Annual convention, v.56, 1926, p.72-81. 81 W75T)
A general discussion of the problem.
27. Clark, V. A. Cold storage on the farm. Behavior of different fruits and vegetables in a mechanical cold store." U. S. Dept. Agr. Library, Bibliographical Contributions, no.4, p.2.
Strawberries: p.14.
28. Close, C. P., Ballard, W. R., and White, T. H. College Park, 1907. p.161-195. (Md. Agr. exp. sta. Bul. 124)
Mostly on varieties, but includes also table: strawberry yields in quarts per acre, 1905-1907, by varieties; and quarts per acre in 1905, 1906 and 1907, ten best yielding varieties.
29. Connecticut, Commissioner of agriculture. Connecticut market bulletin. (Published Mon., Wed., Fri.) v.1. no.1, Aug. 3, 1921- date. Hartford, 1921-date.
v.1, no.1, Aug. 3, 1921 to v.5, no. 75, June 29, 1925 issued by the Marketing Bureau of the State Board of Agriculture, Supersedes Con-

necticut Agricultural College. Extension service. Market Bulletin.

Gives wholesale prices by grades and varieties at Hartford, New Haven, Waterbury, Bridgeport, New London, and Norwich, of fruits (including strawberries during season), vegetables, dairy and poultry products, and meat products.

Also gives market conditions of fruits and vegetables, eggs and meat products in various localities.

30. Connor, L. G. Farm management and farm profits on irrigated land in the Provo area, Utah Lake Valley. Washington, 1918. 40p. (U. S. Dept. agr. Bul. 582)

"The farm-management survey discussed in this bulletin was made in 1914 to check the results secured in a similar study conducted in the same area during the previous year," which was U. S. Dept. Agr. Bul. 117. Profits in Farming on Irrigated Areas in Utah Lake Valley, by E. H. Thomson, and H. M. Dixon.

Data for strawberries are included in table 14, p. 22 Labor requirements of crops.

31. Cook, M. T. Common diseases of berries. New Brunswick, 1917. 12p. (N. J. Agr. exp. sta. Circ. 88)

Discusses leaf-spot, powdery mildew, and fruit rots during transportation) of strawberries.

32. Coons, G. H., and Nelson, Ray. The plant disease of importance in the transportation of fruits and vegetables. Chicago, Printed for special distribution by American railway perishable freight association, 1918. 59p. (Circ. no. 473-A, American railway perishable freight assoc.) 464-C78

Not examined.

33. Corbett, L. C. Strawberries, Washington, D. C., 1904. 24p. (U. S. Dept. agr. Farmers' bul. 198)

Mainly concerned with culture, but has section on harvesting and shipping.

34. Corbett, L. C., and others. Fruit and vegetable production. (In U. S. Dept. agr. Agriculture yearbook, 1925, p. 151-452; also issued as yearbook separate 931)

"A comprehensive survey of the horticultural industry of the United States from the viewpoint of production. The article is illustrated with numerous views and with charts showing the location and magnitude of the principal crops. The various factors of climate, soil, culture, methods of handling, and marketing, which underlie the success of the industry are discussed." - Exp. Sta. Record v. 55, p. 741.

Strawberry acreage, 1919: p. 259.

Location of important commercial strawberry-growing districts: p. 260.

35. Corbett, L. C., and others. Horticultural manufactures. (In U. S. Dept. agr. Agriculture yearbook, 1925, p.601-622)
Strawberry statistics are found in the tables: packs of the more important canned fruits and vegetables in 1909, 1919, and 1921. (p.611)
36. Corbett, L. C., Gould, H. P., and Beattie, W. R. Fruits and vegetables. (In U. S. Dept. agr. Agriculture yearbook, 1925, p.107-124)
"This article is not intended as a handbook of cultural information on American horticulture, but as a portrayal of the origin and development of the fruit and vegetable industry of the United States, and as an expression of its present status and important trends."
Includes two charts which give data on strawberries, and which show the total value of fruits and vegetables (by commodities), in 1919, and the value and native origin of fruits and nuts (by kinds) in 1919.
37. Cricher, A. L. Transportation of Pacific Coast perishables. Washington, 1924. 91p. (U. S. Bureau of foreign and domestic commerce. Trade promotion series 12)
"This report portrays the facts in the present problem of transportation of fruits and vegetables of the Far Western States and correlates the various causes of car shortage, retarded market distribution, and car movement. -Letter of submittal, p. IX.
Statistical data on strawberries are to be found in the table: car-lot unloads of perishable fruits and vegetables, by consumption centers, 1923 (p9).
38. Cruess, W. V., and Christie, A. W. Dehydration of fruits (a progress report). Berkeley, 1921. 77p. (Calif. Agr. exp. sta. Bul. 330)
Gives account of general procedure and short paragraph on strawberries.
39. Cruess, W. V., Overholser, E. L., and Bjarnason, S. A. Storage of perishable fruits at freezing temperatures, preliminary report. Berkeley, 1920. 43p. (Calif. Agr. exp. sta. Bul. 324)
Contains tables showing treatment before storing; notes in August, 1919; color, flavor, and texture of samples thawed in January, 1920; and date spoiled at room temperature of cherries, apricots, loganberries, red raspberries, currants and strawberries.
40. Cutting, F. E. A new departure in marketing small fruits. (In Minnesota Horticulturist, v.46, no. 6, June, 1918, p.217-220)
Deals with the selling of strawberries directly to the consumer who does the picking.
41. Darrow, G. M. Fruits in West Virginia, Kentucky, and Tennessee. Washington, 1923, 82p. (U.S. Dept. agr. Bul. 1189)
"Literature cited": p.78-81.

"The purpose of this bulletin is to present the results of the investigations (1) by outlining and describing the pomological regions of the area and (2) by presenting the information obtained regarding the behavior of fruit varieties in those regions." -p.1-2.

The following statistics relative to strawberries are given: acreage, 1920 and 1910 and yield in preceding season, West Virginia, Kentucky, and Tennessee (Census figures); and carload shipments of strawberries from stations in Kentucky and Tennessee in 1914, 1920, and 1921.

42. Darrow, G. M. Strawberry culture; eastern United States. Washington. D. C., 1919. 50p. (U. S. Dept. agr. Farmers' bul. 1028)
Discusses the general care and treatment of the crop, varieties suitable for the region, frost protection and irrigation. Gives acreage by states in 1909 and shipments by states in 1914 and 1915.
43. Darrow, G. M. Strawberry culture in Tennessee, Kentucky, and West Virginia. Washington, D. C., 1917. 24p. (U. S. Dept. agr. Farmers' bul. 854)
A general treatise on the cultivation of strawberries, their planting and care. Gives table showing the extent of the commercial shipment from Tennessee and Kentucky in 1914 and 1915.
44. Darrow, G. M. Strawberry culture: South Atlantic and Gulf Coast regions Washington, D. C., 1919. 40p. (U. S. Dept. agr. Farmers' bul. 1026)
Discusses the general care and treatment of the crop, harvesting and shipping, varieties, insects and diseases.
45. Darrow, G. M. Strawberry culture: western United States. Washington, D. C., 1919. 29p. (U.S. Dept. agr. Farmers' bul. 1027)
Deals with the general care and treatment of the crop, insects and diseases attacking it, harvesting and shipping, and varieties suitable for the region.
46. Darrow, W. H. The fruit industry of Connecticut. Storrs, 1921. 14p. (Conn. Agr. col. Ext. serv. Bul. 43)
Includes a table containing statistics on strawberries; acreage of small fruits in Connecticut by counties.
47. Darrow, W. H. Strawberries in Connecticut. Storrs, 1921. 26p. (Conn. Agr. col. Ext. serv. Bul. 42)
"Publications of interest in connection with this bulletin": p.26.
A discussion of the best methods of commercial growing for the state, with information on harvesting and marketing and a table showing acreage and production of strawberries in 1909 and 1919 (Census figures) by counties.
48. Davis, V. H. The importance and value of the horticultural industries of Ohio. (In Columbus horticultural society. Journal of proceedings. v.19, no.3, Sept. 1904, p.100-109) 81 C72R
Statistics on strawberries are given on p.105.

49. DeVane, C. L., and Scott, J. M. Florida strawberries. Tallahassee, 1929. 16p. (Florida. Dept. agr. Bul. n.s. 13)
Includes table: strawberries, early commercial crop: acreage production; and price per quart, by states, 1924-28.
50. De Vault, S. H., and Bouis, G. E. Roadside markets in Maryland. College Park, 1926. p.165-201 (Md. Agr. exp. sta. Bul 280)
"The information contained in this report is based upon a study which was made during the summer and fall of 1925 relative to the marketing of farm produce at the roadside. Personal observation and investigation were made of the development of roadside markets, local transportation, types of market stands, location, conducting the markets, products sold, advertising, grading and standardization, value of display, prices, operating costs, profitableness, abuses of roadside selling, and suggestions for improvement."
Statistics including data on strawberries are: average prices of fruits and vegetables at two permanent roadside markets in Harford County, 1925; average prices of fruits and vegetables at one permanent roadside stand in Anne Arundel County, 1925; and average prices of fruits and vegetables at two temporary stands in Frederick County, 1925.
51. Diederich, A. L. The fruit and vegetable packing industry in New Jersey. Statistical summary for the year 1923. Trenton, 1924. 14 p. (N. J. Dept. agr. Circ. 80)
Tables containing statistics relating to strawberries are: estimated total pack of fruits in New Jersey in 1923; average prices paid for crops not under contract; selling value of total pack; and table of weights of canned fruit and vegetable products.
52. Diederich, A. L. The relationship of production and movement of fruits and vegetables in the United States to the distribution of New Jersey's produce. Trenton, 1925. 82p. (N. J. Dept. agr. Circ. 88)
"Reference bibliography": p.81-82.
Tables containing statistics relating to strawberries are: estimated receipts of certain crops by truck or wagon from New Jersey in Philadelphia, 1919, 1920 and 1923; strawberries, census and commercial acreage; approximate shipping seasons for strawberries; and carlot shipments of strawberries (from certain states and the United States - 1923).
53. Downing, F. P. Berry boxes and fruit baskets. Effects of standardization. (In Western Fruit Jobber, v.6, no.4, Aug. 1919, -15-21)
54. Durst, C. E. Problems in marketing fruits and vegetables. (In Kans. State horticultural society. Biennial rept. v.38, 1924-1925, p.114-120) 81 Kl3.
Discusses the high cost of distribution, the retail system and standardization, and gives average annual production and average production per capita, 1918-1922, for various fruits including strawberries.

55. Earle, F. S. Strawberries. College Station, Auburn, 1898. 16p. (Ala. Agr. exp. sta. Bul. 94)
Deals mainly with culture and varieties but has brief section on marketing.
56. Edwards, Bricc, and Park, J. W. Motor-truck movement of fruits and vegetables from Delaware and the Eastern Shores of Maryland and Virginia - 1923. Washington, D. C., 1929. 25p. Mimeographed. 1.9 Ee741Mt
Issued in cooperation with Delaware State Board of Agriculture.
Strawberries: p.5, 15, 23-24.
57. Favor, E. H. Unsalable berries. (In Fruit-Grower, v.27, no.12, June 15, 1916, p.326-327)
Overripeness when shipped the cause of loss.
58. Ferris, E. B. Report of work at McNeil (sic) Branch Experiment Station for 1906. Agricultural College, 1907. 20p. (Miss. Agr. exp. sta. Bul. 101)
The section entitled: Fruits and Vegetables includes information on the growing; and marketing; of strawberries.
Reports of work done at the station in 1904 and 1905 are included in Bulletins 87 and 94.
59. Fletcher, S. W. Strawberry culture in Pennsylvania. State College, 1925. 16p. (Pa. State col. School of agr. and Exp. sta. Div. agr. ext. Ext. circ. 106)
A general treatise on the cultivation and care of the strawberry with brief sections on when and how to pick, packing, and grading, and marketing methods.
60. Fletcher, S. W. Strawberry growing. New York, The Macmillan company, 1917. 325p. 94 F63.
Discusses packages, picking and packing, marketing and cost of production, yields, and profits.
61. Fletcher, S. W. The strawberry in North America, history, origin, botany, and breeding. New York, The Macmillan company, 1917. 234p. 94 F63S
Discusses also the rise of commercial strawberry-growing; and the history of strawberry packages.
62. Flohr, L. B. Marketing farm produce by parcel post. Washington, D. C., 1923. 54p. (U. S. Dept. agr. Farmers' bul. 1551)
This is a revision of Farmers' bulletin 703: Suggestions for Parcel Post Marketing, by L. B. Flohr.
Strawberries: p.21-22.
63. Florida. Dept. of agriculture. State marketing bureau. Graphic charts of commodity prices and shipments of principal agricultural products. Buffalo & New York, J. W. Clement Co., Matthews-Northrup works, 1923. 3p.

- Contains 44 charts of which the ones relating to strawberries are: seasonal price trends for strawberries, Dec. 1921-Apr. 1922, Dec. 1923-May, 1924; Dec. 1924-Apr. 1925; and seasonal quotations for strawberries, Dec. 1926-Apr. 1927.
64. Florida. Dept. of agriculture. State marketing bureau. Official grades for the standardization of Florida fruits and vegetables 1927. Effective May 23, 1927. (Tallahassee, 1927) 53p.
Official U. S. and Florida standards for strawberries (1926): p. 47-48.
65. Fraser, Samuel. American fruits; their propagation, cultivation, harvesting and distribution. New York, Orange Judd publishing company, inc., London, Kegan Paul, Trench, Trubner & co., ltd., 1924 88p. 93 F86
The strawberry: p.563-577. Discusses culture, harvesting, grading, packing, loading of cars, refrigeration, and cost of growing.
66. Fraser, Samuel. Strawberry; containing practical directions for the propagation, culture, harvesting and marketing of strawberries for profit. New York, Orange Judd publishing company, 1926. 128p. 94 F86
67. Froehlich, Paul. Car-lot shipments of fruits and vegetables in the United States in 1916. Washington, 1918. 196p. (U. S. Dept. agr. Bul. 667)
Statistics containing data on strawberries are found in the following tables: total car-lot shipments of fruits and vegetables by states (p.9); strawberries, by states and counties (p.102-106)
68. Fulton, S. H. The cold storage of small fruits. Washington, 1907. 28p. (U. S. Dept. agr. Bur. plant industry, Bul. 103)
A discussion of the methods of cold storage of small fruits, including strawberries. Among topics discussed are: the influence of the time of picking on the keeping quality of small fruits; storage house temperatures for small fruits; the freezing of small fruits in cold storage; the influence of the type of package on the keeping quality of small fruits; the influence of oxygen gas on the keeping quality of small fruits; and the behavior of small fruits when withdrawn from cold storage.
69. Funk, W. C., and others. Agricultural production and marketing in Atlantic County, New Jersey. New Brunswick, 1925. 39p. (N. J. Agr. exp. sta. Bul. 416)
Statistics including data on strawberries are: total 1924 receipts of important farm products in Atlantic City; and quarterly receipts by types of carriers hauling goods; and estimated acreage, production and disposition of crops in Atlantic County, New Jersey, in 1924. Information on strawberries is found also on p.26-27.
70. George, R. F. Shed packing of strawberries. Jefferson City, 1911. p.55-58. (Mo. State bd. hort. Annual report, 4, 1910).

71. Grades for strawberries. (In Illinois state horticultural society. Trans. v.59 (1925), 1926, p.72-73 81 Il6)
72. Harkey, F. L. South Carolina grades for strawberries. Clemson College, 1922. 1p. (Clemson Agr. col. Ext. serv. Ext. circ. 48)
Issued in cooperation with the U. S. Dept. of agriculture.
73. Hartman, D. L. Records of another Florida strawberry crop. (In Rural New Yorker, v.81, no. 4709, Sept. 23, 1922, p.1141-1142)
Gives acreage, yield per acre, production, average price, and gross sales, 1920-1922.
An earlier account of the crop in this farm is given in Rural New Yorker, v.80, no.4654, Sept. 3, 10, 1921, p.1975, 1100.
74. Hawbaker, C. C., and Burmeister, C. A. Marketing berries and cherries by parcel post. Washington, D. C., 1918. 17p. (U. S. Dept. agr. Bul. 688)
The section devoted to strawberries discusses their picking and packing, containers used, mailing, and economic considerations such as postage charges, size of crate demanded by consumers, etc.
75. Hedrick, U. P. The small fruits of New York, by U. P. Hedrick assisted by G. H. Howe, O. M. Taylor, Alwin Berger, G. L. Slate, Olav Einsct... Albany, J. B. Lyon company, printers, 1925. 614p. (Report of the New York state agricultural experiment station for the year 1924-25) 94 H352
At the head of title: State of New York, Dept. of farms and markets, 33d annual report, pt.2.
Bibliography and references: p.560-568.
Strawberries: p.355-559.
Acreage, yield and value of strawberries in the United States in 1919, by divisions and states (p.369-370)
76. Hendrickson, A. H. Small fruit culture in California. Berkeley, 1917. 24p. (Calif. Agr. exp. sta. Circ. 164)
Deals largely with cultivation and varieties of different fruits, including strawberries but has small sections on diseases, picking, and packing.
77. Hendrickson, A. H. Strawberry culture in California. Berkeley, 1928. 21p. (Calif. Univ. Col. agr. Ext. serv. Circ. 23)
Includes a table showing approximate acreage of strawberries in 1926, by counties. Discusses also estimated cost of starting a strawberry planting; harvesting; and the status of the industry.
78. Henry, H. W. How to market strawberries for the top prices. (In Indiana state horticultural society. Report 1903, p.85-88) 81 In2
Methods of marketing and prices received by one grower.
79. Herron, L. G. Fruit packages in the Middlewest. Stillwater, 1914. 27p. (Okla. Agr. exp. sta. Circ. of information 21)

The strawberry package: p.20-26.

80. Hill, R. G. Preparing strawberries for market. Washington, D. C., 1928. 22p. (U. S. Dept. agr. Farmers' bul. 1560)
Discusses picking, grading, packing, shipping packages, branding and marking, and loading for market.
81. Howard, R. F., and Wiggans, C. C. Some new hybrid strawberries. Lincoln, 1923. 15p. (Nebr. Agr. exp. sta. Bul. 189)
Includes statistics showing origin of seedlings and yield of selected hybrids compared with various varieties.
82. Howard, W. L. Strawberry growing. Columbia, 1904. p. 8-27. (In Mo. State bd. agr. Monthly bul. v.4, no. 2)
Reprinted as separate. 94 H83
Has short section on picking, packing and marketing.
83. Hutson, J. B. Strawberries and farm profits in western Kentucky. Lexington, 1924, pp.133-171. (Ky. Agr. exp. sta. Bul. 255)
Discusses the development of the industry in Kentucky and gives statistics showing: the man labor and horse work necessary in planting and cultivating strawberries; the direct expenses necessary; standard needs in harvesting; and the range in per acre receipts from strawberries on the different farms for the three-year crop period, 1922-1924.
84. Jenkins, E. W., and Kelley, R. T. Strawberry production in Florida. Gainesville, 1924. 16p. (Fla. Univ. Agr. ext. div. Bul. 40)
Mainly on cultivation, with brief section on picking, packing and shipping.
85. Jesness, O. B., and Card, D. G. The marketing of Kentucky strawberries. Lexington, 1924. 30p. (Ky. Agr. exp. sta. Bul. 246)
Discusses marketing methods and gives statistics showing outlets for Kentucky strawberries, prices in 1922, and expenses of operating the cooperative marketing associations.
86. Johnson, N. W., and Severance, George. An economic study of berry farming in Western Washington. Pullman, 1926. 79p. (Wash. Agr. exp. sta. Bul 204)
Includes statistics showing costs of producing an acre of strawberries; variation in yield per acre, 1924; condition of berry farms, etc.
87. Jones, B. B. Standard grades for strawberries. Madison, 1921. 3p.
(Wisconsin. Div. of markets. Bul. v.1, no.10)
88. Jones, W. P. Selling Wisconsin berries and muskmelons; with discussion (In Wisconsin state horticultural society. Proceedings annual convention, v.56, 1926, p.59-72). 81 W75T
A general discussion of the problem.

89. Kansas state horticultural society. Biennial rept....v.34, 1916-1917. Topeka, 1918. 252p. 81 K13.
Gives tables of statistics of which the following include data on strawberries; acreage and production of small fruits (acreage 1916, production 1915) by counties; (p.228-229); and acreage and production of small fruits (acreage 1917, production 1916) by counties (p.240-241)
90. Keffer, C. A. Strawberries. 2d ed. Knoxville, 1923. 8p. (Tenn. univ. (Col. agr. Div. ext. Pub. 80)
Mostly cultural with section on harvesting and marketing.
91. Kinnison, F. I. The forcing of strawberries. Fort Collins, 1917. 8p. (Colo. Agr. exp. sta. Bul. 222)
A general account of forcing and harvesting strawberries with a table showing the yield of different varieties.
92. Lauer, F. C. Factors determining the margins at which fruits and vegetables are handled by Boston jobbers and A study of the factors establishing the percentage margins at which selected fruits and vegetables are handled by various types of retail stores in metropolitan Boston, by J. Carney Howell. Cambridge, Mass., May 1924. 70, 48p. Typewritten. 284.3 L362
Copy in Library, U. S. Dept. of Agriculture.
Statistics including data on strawberries are found on pp. 8, 25 of pt.1 and pp.4 and 29 of pt.2.
93. Lazebny, W. R. Judging or scoring fruits. (In Society for the promotion of agricultural science. Proceedings. 19 (1898) (1899) p. 136-161). 4 Sol.
Gives scale of points for judging apples, grapes, strawberries, and tomatoes.
94. Leverich, J. E. How much does a strawberry cost" (In Better Fruit, v.21, no.10, Apr.1927,p.5)
Not examined.
95. Lloyd, J. W., and Newell, H. M. Observations on the refrigeration of some Illinois fruits in transit. Urbana, 1929. p.511-544. (Ill. Agr. exp. sta. Bul. 334)
" Literature cited": p.543-544.
Floor racks more beneficial than salt in refrigerating strawberries, p.531-533.
96. Locklin, H. D. Handling berries for greater profit. (In Wash. Agr. exp. sta. Bi-monthly bul. v.12, no.2, July, 1924, p.43-47)
Includes information on the picking, cooling, and hauling of strawberries.
97. Longyear, B. O. Strawberry growing in Colorado. Fort Collins, 1909. 12p. (Colo. Agr. exp. sta. Bul. 140)
Includes information on picking and packing, marketing and cost of

growing, yields and profit.

98. Lorree, R. E. Strawberry growing in Michigan. East Lansing, 1928. 29p. (Mich. Agr. exp. sta. Special bul. 182)
 Discusses the general culture of the strawberry and gives statistics showing: commercial acreage, yield per acre, production and value of strawberries in Michigan, 1924-1927; daily receipts in Chicago for the year 1927; and carlot unloads during May, June and July 1926 and 1927 in Detroit and Chicago, by states.
99. Louisiana. Dept. of agriculture and immigration. Facts and figures on the strawberry industry of Louisiana, season of 1924. (Baton Rouge, 1925) 40p.
 Made up largely of list of names and addresses of growers of the Tangipahoa strawberry belt, but includes statistics of the number of cars shipped from various points, the average yield per acre, and the expense of producing the crop.
100. McCown, M. Orange County strawberry deal. (In Hoosier Horticulture, v. 11, no. 2, Febr. 1929, p. 27-29)
 Gives acreage, production, and returns for the 1927 and 1928 seasons.
101. McKay, A. W., and Kuhrt, W. J. Management problems of cooperative associations marketing fruits and vegetables. Washington, D. C., 1926. 51p. (U. S. Dept agr. Bul. 1414)
 This is a discussion of the problems arising in the cooperative marketing of fruits and vegetables. It gives also statistics relating to fruits and vegetables marketed, including strawberries. These are total carload shipments...for the calendar years 1920 to 1924; volume of business of 1,141 cooperative associations in 1922, grouped according to products marketed; and relative use of pooling periods of different durations made by 478 fruit and vegetable associations, 1922.
102. McKay, A. W., Samson, H. W., and others. Marketing fruits and vegetables (In U. S. Dept. Agr. Agriculture yearbook, 1925, p. 623-710; also published as Yearbook Separate 930)
 "The methods of harvesting, grading, packing, storing, transporting, and selling fruits and vegetables are described. Statistics are given of the imports of fresh, dried and canned fruits, fresh and dried vegetables, and nuts. The types, operation, and significance of cooperative marketing agencies are discussed." Exp. Sta. Record, v. 55, p. 785.
 Statistical tables containing data on strawberries are: car-lot shipments of fruits, expressed in thousands of cars, for the years 1920-1924 (p. 624); duration of pooling period of 478 fruit and vegetable marketing associations (p. 667); imports of fruits, vegetables, and nuts (p. 694); and imports of fruits and nuts (p. 698).

103. McNair, A. D. Labor requirements of Arkansas crops. Washington, D. C. 1924. 63p. (U. S. Dept. agr. Bul. 1181)
Tables containing statistics relating to strawberries are: assumed crop yields per acre; labor requirements on 10 acres of various crops by months; chart showing labor on 10 acres of first year strawberries, Washington County; labor on 1 acre of Klondyke strawberries in bearing, northwest Arkansas; and labor requirements for various crops on 1-acre basis.
104. McNallie, J. F. Strawberries. Jefferson City, n.d. 24p. (Mo. State Bd. hort. Bul. 3, rev.)
Picking and packing: p.9.
Cost (and) profits per acre: p.11-13.
105. McNallie, Jerome. Strawberries. Fayetteville, 1890. 8p. (Ark. Agr. exp. sta. Bul. 13)
Deals mainly with culture and varieties, but has table showing date when planted, date of appearance and stand, rate of yield per acre, date of first and last pickings, and per cent of berries ripening on certain dates (p.6-7).
106. Magill, W. W., and Johnstone, W. C. Commercial strawberry growing in western Kentucky. Lexington, 1927. 4p. (Ky. Univ. Col. agr. Ext. div. Circ. 216)
Issued in cooperation with the U. S. Dept. of agriculture.
In addition to care and treatment of the strawberry, this circular discusses probably returns, picking, grading, and marketing.
107. Marketing strawberries. (In Country Gentleman, v.71, no. 2780, 1906, p.450-451)
Methods of marketing of the fruit growers of Neosho, Missouri.
108. Maryland. State department of markets. Market news letter (monthly) v.1, no. 1-date; May 1, 1925-date. College Park, 1925-date.
"The purpose of the 'Market news letter' is to furnish to grower, shipper, handler, or consumer of farm products reliable information concerning all phases of the marketing problem as they affect their respective interests."
Contains market news relating to current prices for farm and live stock products, (including strawberries) movement to market, etc.
109. Massachusetts. Dept. of agriculture. Boston retail price report. (collected from retail stores) (weekly) June 15, 1920-date. Boston, 1920-date.
June 15, 1920 to Feb. 1, 1921 have title: Retail prices, Boston markets.
Quotes prices of fruits (including strawberries), vegetables, dairy products, poultry, meat and fish.

110. Massachusetts. Dept of agriculture. Division of markets. Farmers' produce market report (daily except Saturday) Sept. 29, 1919 to date. Boston, 1919 to date. Mimeographed.
Sept. 29, 1919 to June 10, 1920 have title: Produce Growers Boston Farmers' Market Report.
Quotes wholesale prices of fruits (including strawberries during season) Also gives wholesale prices of shipped in fruits and vegetables. Occasionally gives condition and forecast of crops.
111. Massachusetts. Dept. of agriculture. Division of markets. Terminal marketing of agricultural products. Metropolitan Boston. June 1923. Mass. dept. of agriculture, N. E. research council on marketing and food supply (and) U. S. Dept. of agriculture. Boston, 1923 5v. in 1. Typewritten. 280.3 M38T
Copy in Library, U. S. Dept. of Agriculture.
Bibliography: Section 1, p.73; Section III, p.75.
The following sections contain data on strawberries: Jobbing produce margin study, City of Boston, by C. C. Bowen.—A study of the percentage margins at which selected farm products are handled by various types of retail stores in metropolitan Boston, by A. M. James.
112. More, C. T., and Truax, H. E. Preparation of strawberries for market. Washington, D. C., 1918. 27p. (U. S. Dept. agr., Farmers' bul. 979; Abstract in International Review of the Science and Practice of Agriculture, v. 10, no.10. Oct. 1919, p.1268-1269.)
Discusses handling, picking, grading (including definition of grade terms), packing, packing sheds, shipping packages, standardization of packages, branding, and marking and inspection.
113. Moving strawberries on time on the St. Louis-San Francisco. (In Railway Age, v.85, no. 15, October 13, 1928, p.698-700)
Not examined.
114. Needham, G. H., and Fellers, C. R. An application of the Howard method to the detection of spoilage in berry products. (In Association of official agricultural chemists. Journal. v.8, no.3, Feb. 1925, p.312-327)
Includes data on spoilage in strawberry products.
115. New Hampshire. Dept. of agriculture. Bureau of markets. Weekly market bulletin, Dec. 17, 1918 to date. Concord, 1918 to date.
From Dec. 17, 1918 to Mar. 30, 1921 the title is: Weekly Market Letter. The Apr. 6, 1921 issue is numbered v.1, no.1. Mimeographed sheets from Dec. 17, 1918 to Mar. 30, 1921.
Each issue contains a market review of prices; range of prices received by wholesalers and growers in Manchester, Concord, Keene, Portsmouth, and Boston for various commodities such as fruits (including strawberries during season), vegetables, dairy products, grain, etc.

116. New Jersey. Dept. of agriculture. Bureau of markets. Market conditions (weekly) v.1, no.1, Mar. 7, 1927 to date. Trenton, 1927 - date.
This publication is issued in 9 numbered series and lettered series from W. to Z. Ser. 7 gives market conditions and prices for strawberries at the following markets: New York, Philadelphia, Pittsburgh, Newark, Boston, and Chicago.
The other series deal with various fruits and vegetables.
117. New Jersey. Dept of agriculture. Bureau of markets. Weekly market review. Dec. 31, 1917 -date. Trenton, 1917 -date. Multigraphed.
Dec. 31, 1917 to Dec. 16, 1918 have title: Market News Service.
June 16, 1919 to Nov. 18, 1926 have title: Weekly Market Letter.
Nov. 24, 1926 to date issued as: Weekly Market Review. Its City Market Letter was combined with this publication, Nov. 24, 1926.
Includes New York, Newark and Philadelphia quotations for miscellaneous fruits (including strawberries) and vegetables. All quotations are for wholesale prices.
118. New Jersey. State College of agriculture. Monthly economic review of New Jersey agriculture, v.1, no.1, Apr. 14, 1925 to date. New Brunswick, 1925 to date. Mimeographed.
Issued in cooperation with the U. S. Dept. of Agriculture and the State Dept. of Agriculture.
Each issue gives tables of average monthly prices on the New York and Philadelphia markets of New Jersey produce; index numbers and purchasing power; wholesale prices; relative purchasing power of farmer's products in U. S.; cold storage holdings in U. S.; etc.
In addition, the January number of each year gives table of acreages, yields, production, estimates & total values for the two preceding years. The February issue contains the livestock report and the Agricultural outlook for New Jersey farmers. The December issue gives tables of: New Jersey acreages, yields, production, estimates and total value for the past three years. This information is also given for the United States.
Strawberries are among the commodities for which statistics are given.
119. New York (State) Dept. of agriculture and markets. Buffalo market report (daily) Oct. 7, 1920-date. Buffalo, 1920 -date.
Oct. 7, 1920 to Nov. 14, 1921 was issued by the Division of Foods and Markets, Dept. of Farms and Markets. No report issued on Saturdays, Aug 19, 1922 to Dec. 26, 1925.
Gives daily wholesale prices on the Buffalo market of fruits (including strawberries) vegetables, potatoes, dairy products, poultry and hay.

120. New York (State) Dept. of agriculture and markets. Farmers' daily market report on up-state produce. Feb. 15, 1921 - date. New York City, 1921 - date. Mimeographed.
Weekly edition published on Fridays. No report issued on Saturdays.
Quotes daily wholesale prices of fruits (including strawberries), vegetables, potatoes, eggs, dairy products, poultry, hay, meat, and livestock on the New York City markets. The list of commodities varies according to season.
121. New York (State) Dept. of agriculture and markets. Report on nearby produce (daily) Jan. 2, 1925 to date. New York City, 1925 to date.
Jan. 2, 1925 - Sept. 29, 1925 have title: News Release on Nearby Products. Sept. 30, 1925 - Aug. 14, 1926 have title: Report on Nearby Products.
Quotes wholesale prices of fruits (including strawberries) and vegetables from Long Island, Staten Island and other nearby sections on the Brooklyn and New York City markets.
122. New York (State) Dept. of agriculture and markets. Bureau of statistics. Crop report (monthly) Feb. 1, 1918 - date. Albany, 1918 - date. Mimeographed.
Issued in cooperation with the U. S. Dept. of Agriculture, Bureau of Agricultural Economics. Division of Crop and Livestock Estimates.
Gives condition of crops and statistics of production, acreage and value. The December number is usually given over to the annual crop review although occasionally a printed report is issued in its place.
Includes data on strawberries during the season.
123. New York (State) Dept. of farms and markets. The fruit industry in New York state. Albany, 1923. 344 p. (Its Bul. 147)
Revision of Bulletin 79.
Strawberries, by A. R. Katkamier, p. 307-308.
Table showing number of acres and production in quarts of strawberries in New York state, by counties (Census figures, 1920) : p. 308-309.
124. North Carolina. Cooperative crop reporting service. Farm forecaster; crop and live stock report for North Carolina (quarterly) no. 1, April 10, 1920 to date. Raleigh, 1920 to date.
Issued in cooperation with the U. S. Dept. of Agriculture, Bureau of Agricultural Economics.
Each issue contains short articles on certain phases of farm economics. Has also tables of prices paid to North Carolina producers for farm products; and index numbers of North Carolina farm prices.
The Dec. issue includes tables of North Carolina crops ; and farm census for North Carolina.
Strawberries are included among the crops for which statistics are given.

125. Oklahoma State board of agriculture. Market news service, Nov. 16, 1926 - date. Oklahoma City, Okla., 1926- date. Mimeographed. Issued in cooperation with the State Market Commission and the U. S. Department of Agriculture, Bureau of Agricultural Economics. Dec. 10, 1926 to Feb. 28, 1927 have title: Marketing Bulletin. The News Service issued on Tuesday covers prices of livestock on the Oklahoma City market; vegetables, fruits (including strawberries) potatoes, peanuts, eggs, poultry, cream, etc.
126. Olcy, R. C. Shipping seasons of states producing fruits and vegetables in competition with New Jersey products, giving relative importance in percentages, 1918-1923 (based on carlot shipments). Trenton, 1926. 37p. (N.J. Dept. agr. Circ. 100) The following tables contain data on strawberries: distribution of the proceeds of 9,476 cars of representative fruits and vegetables sold at wholesale in representative markets, 1920-21; and movement of strawberry crop in percentages by states of origin.
127. Olcy, R. C. Transportation of New Jersey's fruits and vegetables by truck. Trenton, 1926. 24p. (N. J. Dept. agr. Circ. 99) Titles of tables in this circular which contain statistics relating to strawberries are: per cent carried by rail in 1925 of various important New Jersey crops; hypothetical production of fruits and vegetables in Monmouth County in terms of carlots, 1923 and 1924; and usual rates to New York, Philadelphia, Camden, and Atlantic City.
128. Olney, A. J., and Mathews, C. W. Strawberries. Lexington, 1918. p. 67-94. (Ky. Agr. exp. sta. Bul. 216) Includes statistics showing carlot shipments of strawberries from various states; varieties desirable for market; and varieties which have been most productive among those tested on the Station grounds at Lexington for a three to five-year period.
129. Oregon state horticultural society. Report on foreign markets for Oregon fruit and laws governing importations, compiled from consular reports by Stewart F. Lamb... Salem, State printing department, 1914. 80p. (Supplement to fourth annual report, 1912) 280.3 L16 Includes statistics on strawberries (both fresh and preserved) giving markets and prices.
130. Oskamp, Joseph. Strawberries. Lafayette, 1913. p. 753-785. (Ind. Agr. exp. sta. Bul. 164) Deals with culture and management and variety tests, with short section on picking, packing and marketing.
131. Oskamp, Joseph. Strawberry varieties and cultural hints. Lafayette, 1917. 16p. (Ind. Agr. exp. sta. Bul. 200) Mainly on culture and varieties but has short section on harvesting and marketing.

132. Overton, M. H., and Edwards, P. K. The production and marketing of farm products in Wayne County, Indiana. La Fayette, 1925. 44p. (Ind. Agr. exp. sta. Bul. 295)

Statistics containing data relating to strawberries are: comparison of prices at the Richmond city market and at groceries. April 12, 19, 26, May 3, 1925 and average (p.35); total and per capita consumption, proportion produced locally, and relative quality of locally produced and imported fruits used in Richmond (p.36); total importation of fruit into Richmond, March 1923 to February, 1924 (p.37); and importations by months of fruit into Richmond from March, 1923 to February 1924 (p.37).

133. Percels, C. E. Growing of strawberries in a commercial way; with discussions. (In Illinois state horticultural society. Trans. 1918, p.280-288). 81 116

Discusses picking, prices, etc.

134. Phillips, J. L. History and development of the commercial orchard industry in Virginia. (In American pomological society. Proceedings 30th, 1907, p.160-174)
Strawberries: p. 165-166.

135. Phillips, R. G. and Fraser, Samuel. Wholesale distribution of fresh fruits and vegetables...for the Joint council of the National League of commission merchants of the United States...The Western fruit jobbers association of America... International apple shippers' association...Rochester, N. Y., Printed by the Fish-Lyman company, inc. (1922) 256p. 280.3 P54

"A survey was conducted by the joint council of three commission merchant and shippers' associations among large representative wholesale and commission firms at Boston, New York, Philadelphia, Pittsburgh, and Chicago, in order to ascertain the wholesale selling price of certain fresh fruits and vegetables, freight rates, the relationship between freight charges and the wholesale selling value of the commodities handled, actual handling costs, overhead, and other fixed costs, and to determine the profits or losses made by commission merchants and wholesale dealers in these commodities." Exp. Sta. Record, v.48, p.596.

For pages dealing with strawberries consult the index, p.254.

136. Port of New York Authority. Terminal marketing studies. June 30, 1923. (New York, 1923) 6v. in 1. Typewritten. 280.3 P833

In cooperation with the U. S. Bureau of Agricultural Economics,
Copy in Library, U. S. Dept. of agriculture.

The following sections contain data on strawberries: A study of the fruit and vegetable traffic movement within the Port of New York district, by W. P. Hedden.- A study of the commercial practices of the produce trade which influence terminal handling, by W. P. Hedden. Special studies of three jobbing markets in the Port of New York District. A. The Newark jobbing market, by E. R. French.- B. The Gansevoort jobbing market, by H. C. Lewis.-C. The Harlem jobbing market, by F. M. Ross.

137. Port of New York authority. Terminal marketing studies. June 30, 1924 (New York, 1924) 7v. in 1. Typewritten. 280.3 P833T
In cooperation with the U. S. Bureau of Agricultural Economics.
Copy in Library, U. S. Dept. of Agriculture.
Data on strawberries are found in Section VII; Jobbing markets of Brooklyn and Queens, by C. E. Artman.
138. Powell, E. C., ed. Fruit packages; the current styles of baskets, boxes, crates and barrels used in marketing fruits in all parts of the country. New York, the Rural publishing company (1893) 62p. (The Rural Library, v.1, no. 19) 93 P87
Includes descriptions and illustrations of berry boxes.
139. Powers, S. Strawberry and culture for the market and the home. Lake City 1897. p.465-504. (Fla. Agr. exp. sta. Bul. 39)
Includes information on picking, sorting and packing, "facing" and shipping.
140. Richards, H. I., and Rollins, H. A. Adjusting farm production in Cheshire County, N. H., to market demands. Durham, 1925. 55p. (N. H. Agr. exp. sta. Bul. 217)
Tables in this bulletin which contain statistics on strawberries are: store purchases of produce from local farmers and from outside county, with average yield per acre in county; and store purchases of produce from local farmers in Cheshire County, compared with importations from outside the county, arranged by towns and districts.
141. Ridley, V. W. Factors in transportation of strawberries from the Ozark region. Washington, D. C., 1918. 10p. (U. S. Dept. agr. Bur. of markets, Doc.8)
Discusses cooling to prevent decay; precooling before loading; precooling in transit; false floors and refrigeration; temperatures in transit; and manner of loading for best refrigeration.
142. Roe, A. W. Strawberry industry of south Florida. (In American Fruit Growers, v.46, no. 1, Jan. 1926, p.10, 36-37)
Includes shipments for the 1922/23-1924/25 seasons.
143. Rose, D. H. Diseases of strawberries on the market. Washington, D. C., 1926. 7p. (U. S. Dept. agr. Dept. circ. 402)
Gives statistics showing car-lot shipments of strawberries, by states of origin, 1919 to 1925; rot in carloads of strawberries inspected on the market, 1919 to 1925; and percentage of Rhizopus rots and of all other rots in carloads from Arkansas, Tennessee, and Louisiana, 1922 to 1925
144. Ruddiman, H. D. Statistics of fruits in principal countries. Production, exports, and imports, for the United States and foreign countries Washington, D. C., 1917. 40p. (U. S. Dept. agr. Bul. 483)
"The purpose of this bulletin is to present in a concise form statistics of fruit and fruit products, including production and trade for the principal producing, exporting, and consuming countries. The

figures used have been taken from official sources, usually from publications of the countries treated. Data concerning commerce in fruits are as a rule fairly complete, but those relating to production if not entirely lacking are in many instances either fragmentary or limited to census years."-Introduction.

The following statistics of strawberries are given for the United States (these include only statistics taken from tables): acreage of strawberries, 1910; production of strawberries, 1909; and value of strawberries, 1909. These are figures from the 13th Census.

145. Schleussner, O. W., and Gilbert, J. C. Marketing and distribution of strawberries in 1915. Washington, D. C., 1917. 32p. (U. S. Dept. agr. Bul. 477)
Includes tables of statistics showing destination points of berry cars shipped from the Louisiana district, season 1915; shipments of straight carloads of strawberries to 299 different towns and cities in the United States during the season of 1915; and total strawberry shipments by shipping stations.
146. Schuster, C. E., and Burrier, A. S. Costs and practices in strawberry production in the Willamette Valley, Oregon. Corvallis, 1929. 43p. (Oregon. Agr. exp. sta. Bul. 245)
Some of the more important statistical tables are: strawberry acreage and production by states for 1927 and cannery pack by states for 1919; size of farm, acres of crop land, and of strawberries (combined averages for 1925 and 1926); varieties and acreage studied, 1925 and 1926; the bearing strawberry investment, 1925 and 1926; strawberry cost summary, 1925 and 1926; variation in the cost of producing strawberries (combined averages for 1925 and 1926); yield and value of strawberries, major varieties (1925 and 1926); cost of establishing a strawberry planting (combined averages for 1925 and 1926); and man labor and total cost per acre of planting.
147. Sears, F. C. Productive small fruit culture; a discussion of the growing, harvesting, and marketing of strawberries, raspberries, blackberries, currants, gooseberries and grapes. 2d ed. Philadelphia, J. B. Lippincott co., East Washington Square, 1925, 368 p. (Lippincott's farm manuals) 94 Sol
Harvesting and marketing strawberries: p.144-156.
148. Severance, George, and Johnson, N. W. Production and marketing of Spokane Valley farm products. Pullman, 1927. 61p. (Wash. Agr. exp. sta. Bul. 221)
Tables including statistics relating to strawberries are: hours of man labor required per acre to grow leading crops in the Spokane Valley; cost of growing strawberries; unloads of carlots of fruits and vegetables in Spokane; and carload shipments out of Spokane County.

149. Scymour, L. A. Texas standards for fruits and vegetables and fruit and vegetable containers. 1927 revision. Austin, Texas, State department of agriculture (1927) 71p. Pan. Coll.
Texas standards for strawberries; p.41-42.
150. Shaw, S. B. The preparation of fruit and vegetables for market. Raleigh, 1909. 38p. (N. C. Dept. agr. Bul. 30, no. 5)
Has section on strawberries.
151. Sherman, W. A., Walker, H. F., and Schleussner, O. W. Strawberry supply and distribution in 1914. Washington, D. C., 1915. 10p. (U. S. Dept. agr. Bul. 237)
Gives tables of statistics showing strawberry shipments for 1914, arranged by states and districts.
152. Shriner, J. A. Canned-goods trade in the Far East. Washington, 1915 78p. (U. S. Bureau of Foreign and Domestic commerce. Special Agents series, 92)
Canned and preserved strawberries are among the foods for which there is a market in the Far East.
153. Spilman, H. A. Strawberry containers and their regional uses. Only three sizes are legal but many styles have adherents. Variety of types portrayed which enjoy popularity. (In Barrel and Box, v.32, no.4, June, 1927, p.13-16)
154. Stahl, J. L. Putting prime berries on your market. (In Better Fruit, v.19, no.11, May, 1925, p.5,8)
Deals with picking and packing.
155. Stevens, N. E. Keeping quality of strawberries in relation to their temperature when picked. (In Phytopathology, v.9, no. 4, Apr. 1929, p. 171-177)
"Literature Cited": p.177.
156. Stevens, N. E. Strawberry diseases. Washington, D. C., 1925. 10p. (U. S. Dept. Agr. Farmers' bul. 1458)
Discusses leaf diseases, diseases caused by nematodes and fruit rots, with measures for their control.
157. Stevens, N. E., and Chivers, A. H. Fanning strawberries in relation to keeping quality. (In Phytopathology, v.9, no. 12, Dec. 1919, p.547-553)
"Literature cited": p.553
158. Stevens, N. E., and Hawkins, L. A. Growth of Botrytis on strawberries under refrigeration. (In Ice and Refrigeration, v.69, no. 6, Dec. 1925, p. 375-376)
"Description of tests on shipments of strawberries under refrigeration conducted by Bureau of Plant industry, U. S. Department of Agri-

culture-interesting feature brought out in test was that second layer in most heavily loaded car in best condition upon arrival at destination."

159. Stevens, N. E., and Hawkins, L. A. Some changes produced in strawberry fruits by *Rhizopus nigricans*. (In *Phytopathology*, v.7, no. 3, June, 1917, p.178-184)
"Literature cited": p.184.
160. Stevens, N. E., and Wilcox, R. B. Further studies of the rots of strawberry fruits. Washington, D. C., 1918. 14p. (U. S. Dept. agr. Bul. 686)
"Literature cited": p.14
This is a study of the rots caused during transportation by *Rhizopus* and *Botrytis*. Includes statistics showing relation of temperature to growth of *Rhizopus*, effect of washing strawberries before packing and after packing, the keeping quality of strawberries in relation to temperature at time of picking and the effect of fanning.
161. Stevens, N. E., and Wilcox, R. B. *Rhizopus* rot of strawberries in transit. Washington, D. C., 1917. 22p. (U. S. Dept. agr. Bul. 531)
Literature cited: p.21-22.
Discusses the causes of decay in transit, the physiology of *Rhizopus nigricans*, shipping practices and sources of infection by *Rhizopus nigricans*.
162. Stevens, N. E., and Wilcox, R. B. Temperatures of small fruits when picked. (In *Plant World*, v.21, no.7, July, 1918, p.176-183)
Strawberries: p.177-179.
163. Stinson, J. T. Strawberries. Fayetteville, 1897. p.119-140. (Ark. Agr. exp. sta. Bul. 48)
Deals mainly with culture and varieties, but has brief paragraphs on crates and on organization (in marketing).
164. Strait, E. D., and Dixon, H. M. The organization and management of farms in Northwestern Pennsylvania; an analysis of the business of 422 farms in the vicinity of Grove City, Pa. Washington, 1920. 32p. (U. S. Dept. Agr. Bul. 853)
Table II, p.12; products sold or added to inventory (including strawberries) per farm on 159 dairy farms and 190 general farms, Grove City, Pa. area.
165. Strawberry and raspberry costs. (In *Better Fruit*, v.18, no.1, July, 1923, p.12)
Costs worked out by berry growers of Snohomish County, Washington at a meeting held at Everett, Wash., April, 1923. They include costs for cannery and costs when shipped.
166. Sutton, L. F. Small fruits for home and commercial planting. Morgantown, W. Va., 1915. 38p. (W. Va. Agr. exp. sta. Bul. 149)

Includes a section on the growing and planting of strawberries; with statistics showing cost of production, and returns and profits from a fruit farm near Morgantown, West Virginia in 1914.

167. Talbert, T. J. Missouri Strawberries. Columbia, 1926. 27p. (Mo. Agr. exp. sta. Bul. 242)

This is a treatise on the growing of strawberries for market and includes also a short discussion of harvesting and marketing strawberries.

168. Talbert, T. J. Strawberry culture in Missouri. Columbia, 1924. 12p. (Mo. Agr. exp. sta. Circ. 123)

A popular discussion of the care and treatment of strawberries, with a short paragraph on harvesting and marketing.

169. Taylor, W. A. The influence of refrigeration on the fruit industry. (In U. S. Dept. agr. Yearbook 1900, p.561-580)

Traces the development of refrigeration in its relation to the transportation and storage of fruit. Information on the refrigeration of strawberries is given on p.575-576.

170. Thayer, E. A. South American trade in canned goods. Washington, 1914. 36p. (U. S. Bureau of Foreign and Domestic commerce Special agents series 87)

Strawberries are among the commodities exported to various South American countries.

171. Thompson, H. C. Strawberry growing in the south. Washington, D. C., 1915. 20p. (U. S. Dept. agr. Farmers' bul. 664)

Deals with the methods of growing strawberries for market, harvesting, packing, packages used, and cost per acre of commercial production.

172. Thonsen, F. L., and Thorne, G. B. Economics of strawberry production and marketing in Missouri. Columbia, 1928. 138p. (Mo. Agr. exp. sta. Bul. 262)

Includes discussions of strawberry prices and how they are determined, production and costs of production, and reduction of marketing costs.

In addition, the following statistical tables are given: commercial acreage of strawberries in all producing states, 1918-27; production of strawberries in all producing states, 1918-27; carlot shipments of strawberries for the more important states, 1921 to 1927; strawberry prices per quart in all producing states, 1918-27; and strawberry yields per acre in all producing states, 1918-27.

173. Thomson, E. H., and Dixon, H. M. Profits in farming on irrigated areas in Utah Lake Valley. Washington, 1914. 21p. (U. S. Dept. agr. Bul. 117)
"Deals with the results of a farm-management survey of about 100 irrigated farms in Utah Lake Valley in Utah."
- The section on Small Fruits, p.18, gives prices paid by a canning factory at Provo for strawberries, tomatoes, apples and other fruits.
174. Totten, E. C. Rigid inspection maintains strawberry prices. (In American Fruit Grower, v.49, no.1, Jan. 1929, p.8)
175. Underwood, M. D. Handling the berry crop. (In American Fruit Grower, v.40, no.2, February, 1920, p.45)
On picking and marketing.
176. U. S. Bureau of foreign and domestic commerce. Foreign trade in canned goods. Washington, 1912. 192p. (Its Special consular report, 54)
Strawberries are among the commodities offered for sale in foreign countries.
177. U. S. Bureau of foreign and domestic commerce. Markets for American fruits. Washington, 1913. 54p. (Its Special consular report, 62)
"While not presenting a complete survey of market conditions and requirements in all foreign countries, the information given will prove of value to exporters desirous of extending their sales or of entering certain fields." Letter of submittal p. 3.
Includes data on canned and preserved strawberries.
178. U. S. Bureau of foreign and domestic commerce. Statistical abstract of the United States, 1928. Washington, U. S. Govt. print. off., 1928. 841p. 157.9 St2
Statistical data on strawberries are to be found in the following tables; acreage, production, and value of all crops in the United States - Census figures, 1899-1924- (p.635); and truck crops, commercial acreage and production, 1922-1927 (p.636).
179. U. S. Bureau of the Census. Fourteenth census of the United States... 1920, volume V, Agriculture. Washington, Govt. print off., 1922. 935p.
Statistics containing data on strawberries are found in the following tables: acreage, production, and value of all crops in the United States, 1919 and 1909; strawberries - farms reporting and value, 1919 and 1909; and acreage and production, 1899 to 1919, by divisions and states; and states leading in the production of each crop; 1919.
Includes figures given in the 1900 Cdnsus.

180. U. S. Bureau of the census. United States census of agriculture, 1925. Summary statistics, by states. Washington, U. S. Govt. print. off., 1928. 149p.
- Statistics relating to strawberries are to be found in the following table: value of crops and acreage and production of principal crops: 1924 (p. 38-51).
- Reports for states, with statistics for counties and a summary for the United States, were published in 1926-1927.
181. U. S. Dept. of agriculture. The agricultural outlook. Washington, 1914-15. (Its Farmers' bul. 672)
- Data on strawberries are given in Florida and California crop reports (p.7).
182. U. S. Dept. of agriculture. Carload shipments of fruits and melons from stations in the United States for the calendar years 1920, 1921, 1922, and 1923. Prepared by the Bureau of agricultural economics. Washington, 1925. 78p. (Its Statistical bul. 8)
- "This bulletin shows for each of 17 kinds of fruits and melons the number of cars billed during the calendar years 1920, 1921, 1922 and 1923 from every station handling 10 or more cars in any one year, grouped by States and counties. The information has been compiled from monthly mail reports furnished to the bureau by about 15,000 station agencies of railroad, express, and boat lines. Wherever possible, these reports have been checked against daily telegraphic reports rendered by the operating departments of the carriers and against all other available sources of information."-p.1.
- Strawberries: p.60-65.
183. U. S. Dept. of agriculture. Carload shipments of fruits and vegetables from stations in the United States for the calendar years 1924 and 1925. Washington, 1927. 158p. (Its Statistical bul. 19)
- Compiled by Mary Hall of the Fruits and Vegetables Division, U. S. Bureau of Agricultural Economics.
- Strawberries. p.55-59.
184. U. S. Dept. of agriculture. Car-lot shipments and unloads of important fruits and vegetables for the calendar years 1924-1926. Prepared by the Bureau of agricultural economics. Washington, D. C., 1928. 145p. (Its Statistical bul. 23)
- "The purpose of this bulletin is to show the origin and the number of carloads of 16 important fruits and vegetables unloaded in 36 important markets during 1924, 1925, and 1926, and the shipments by States of origin of these 16 fruits and vegetables together with 21 other fruits and vegetables which are of lesser importance."

185. U. S. Dept. of agriculture. Crops and markets. v.1-6; Jan. 5, 1924-
Dec. 1926. Washington, D. C., 1924-1926.

"This publication continues the weekly formerly entitled Weather
Crops and Markets...The monthly crop reports and other monthly sta-
tistical summaries will appear once a month in a statistical supple-
ment to be issued about the third week of each month."

This publication includes strawberry statistics, but, as it
is very well indexed, the statistical tables giving data on strawberries
have not been listed here.

186. U. S. Dept. of agriculture. Crops and markets. Monthly supplement
v.1, no.1, Jan. 1924 - v.3, Dec. 1926.

This publication contains estimates, prices, monthly crop condi-
tions, etc. The following are the principal statistical tables deal-
ing with strawberries; others may be found by consulting the indi-
vidual numbers.

v.1.- Statistics of commercial truck crops, 1920-1923 (p.5) (in-
cludes acreage, production and prices of strawberries by states);
commercial acreage of strawberries, 1924. Preliminary estimate, by
states (p.91); strawberries: estimate of acreage and forecast of pro-
duction in the early and second early states, 1924 (p.123); commer-
cial strawberries, intermediate states - acreage and production (p.
175); statistics of truck crops for shipment, 1921-1924. Strawber-
ries for table (p.420); estimated value of farm products, by princi-
pal products or groups, 1922 and 1923 (p.85); sources of supply and
average monthly unloads of strawberries at New York and Chicago,
1917-1921 (p.174).

v.2.- Preliminary estimate of commercial acreage of strawberries
in the early, second early, and intermediate states for 1925, com-
pared with four previous years, and the condition of the plants on
January 15, compared with last year (p.46); estimated acreage and
production for shipping of specified commercial truck crops (p.150);
and statistics of truck crops for shipment, 1924 (revised) and 1925,
by states (p.398).

v.3.- Acreage and forecast of production of specified truck crops
(p.110); strawberries: preliminary estimate of commercial acreage
and condition of plants on January 15, (p.69); estimated commercial
acreage and forecast of production of specified truck crops (p.87,
145); revised estimates of commercial acreage and forecast of produc-
tion for shipment of specified truck crops (p.169, 206); statistics
of truck crops for shipment, 1924-1926 (p.412); carload shipments of
fruits and vegetables shown by states (p.98, 128, 155, 185, 223, 265);
strawberries; preliminary estimate of commercial acreage and condi-
tion of plants on January 15 (p.69); price and condition of truck
crops (p.86, 109); estimated price of farm products received by
producers, February 15, 1925 and 1926, by states (p.86); and prices
to jobbers and total shipments of 14 leading fruits and vegeta-
bles, 1925 (p.23).

187. U. S. Dept. of agriculture. The market reporter, v.1, Jan. 3, 1920 - v.4, Dec. 31, 1921 (weekly) Washington, 1920-1921.

"The Market reporter is an outgrowth of earlier publications in more limited fields issued by the Bureau of Markets. The periodicals formerly issued under the titles of 'Seed reporter' and 'Food surveys' have been merged into this more comprehensive publication, which will also include some other information which has been issued heretofore in mimeographed form." - v.1, no.1, p.1.

This periodical is well indexed so it has seemed unnecessary to bring out each table relating to strawberries.

The following have been noted: Relative acreage, production, and carlot shipments of fruits and vegetables, 1919-1921; v.4, no.1, July 2, 1921, p.9.

Number of carloads of eight important lines of produce unloaded at ten market centers, 1917-1920; v.4, no.10, Sept. 3, 1921, p.154.

Prices of fruits and vegetables, jobbing range: v.3, no.23, June 4, 1921, p.359.

Carload shipments of fruits and vegetables, 1920-1921: v.3, no. 20, May 14, 1921, p.315.

Carloads of fruits and vegetables unloaded at Pittsburgh, by states of origin, 1916-1919: v.3, no.24, June 11, 1921, p.377.

Carloads of fruits and vegetables unloaded at Philadelphia, by months, 1916-1919: v.3, no.12, Mar. 19, 1921, p.187.

Carloads of fruits and vegetables unloaded at Chicago, by states of origin: 1916-1919: v.2, no.5, July 31, 1920, p.70-71.

Carloads of fruits and vegetables, Kansas City market, by states of origin: v. 2, no.1, July 3, 1920, p.9.

Carloads of fruits and vegetables unloaded at New York City, by states of origin: v.2, no.11, Sept. 11, 1920, p.167.

Carloads of strawberries unloaded at 10 prominent markets, by states of origin, 1916-1919: v. 2, no.8, Aug. 21, 1920, p.122.

Unloads of fruits and vegetables at Washington, by states of origin, 1916-1919: v.2, no.9, Aug. 28, 1920, p.144.

Average prices of produce, 1919: v.1, no.2, Jan. 10, 1920, p.25.

Jobbing price range of certain fruits and vegetables, 1919-1920: v.1, no.20, May 15, 1920, p. 310

Commercial acreage and production of early and midseason strawberries: v.1, no. 19, May 8, 1920, p.296.

Cars of early strawberries unloaded at leading markets, 1916-1919: v.1, no.19, May 8, 1920, p.296

Price of Louisiana Klondikes, jobbing range, 1920: v.1, no.19, May 8, 1920, p.296.

Strawberry prices during preceding season, jobbing range, 1916-1919: v.1, no.19, May 8, 1920, p.297.

188. U. S. Dept. of agriculture. Monthly crop reporter. v.1, no.1, May 10, 1915-v.7, no.12, Dec. 1921. Washington, 1915-1921.

"The Monthly Crop Report is a resumption in size and nature of material, of the Crop Reporter, which was discontinued, with the issue of June 19, 1913... It succeeds the Agricultural Outlook, published from September, 1913, to April, 1915, as Farmers' bulletins."

v.1-5, no.1 have title: Monthly Crop Report.

In Jan. 1922, it combined with the Market Reporter and the National Weather and Crop Bulletin to form Weather, Crops and Markets.

Only the latest statistics containing data on strawberries have been listed here. Earlier data may usually be found in the issue for the same month of other years than those indicated here.

Condition of truck crops; v.7, no.6, June, 1921, p.69.

Truck-crop prices: v.7, no.4, Apr. 1921, p.42.

When crops are harvested: v.6, no.9, Sept. 1920, p.101.

Commercial acreage of strawberries: v.6, no.3, Mar., 1920, p.29.

Florida strawberry crop: v.6, no.1, Jan. 1920. p.4.

189. U. S. Dept. of agriculture. Shipments and unloads of certain fruits and vegetables, 1918-1923. Prepared by the Bureau of Agricultural Economics. Washington, 1925. 110p. (Its Statistical bul. 7.)

"The statistics in this bulletin consist of shipments data by States of origin on 9 important commodities - apples, cabbage, cantaloupes, celery, onions, peaches, potatoes, strawberries, and tomatoes - and car-lot unloads of those 9 commodities in 12 important markets, as follows: New York, Chicago, Philadelphia, Pittsburgh, St. Louis, Cincinnati, St. Paul, Minneapolis, Kansas City, Washington, Cleveland, and Detroit." - p.1.

190. U. S. Dept. of agriculture. Weather, crops, and markets. v.1-4, Jan. 1922-Dec. 1923. Washington, D. C., 1922-1923.

"Combination of the Market Reporter (issued by Bureau of Markets) and National Weather and crop bulletin (issued by Weather bureau) and the Monthly crop reporter (issued by Bureau of crop estimates)" v.1, no.1, p.1.

Continued by Crops and Markets.

This publication has been well indexed so it was not thought necessary to list here the tables containing statistics relating to strawberries.

191. U. S. Dept. of agriculture. Yearbook, 1921. Washington, 1922. 885p.

Only tables containing statistics for years other than those published in later yearbooks are listed here: maps showing strawberry acreage, 1919 (p.469); and commercial acreage and production of truck crops in the United States for the years 1917-1921 (p.647).

192. U. S. Dept. of agriculture. Yearbook, 1922. Washington, 1923. 1137p.

The following statistics relative to strawberries for years other than those published in later issues of the yearbook are given: commercial acreage and production of truck crops in the United States for the years 1918-1922 (p.761); and percentage of crops of United States harvested monthly (p.988).

193. U. S. Dept. of agriculture. (Yearbook) Agriculture yearbook, 1923. Washington, 1924. 1284p.
Only tables containing statistics for years other than those in later yearbooks are given here: strawberries; monthly average jobbing prices per quart at 10 markets, 1921-1923 (p.751).
194. U. S. Dept. of agriculture. (Yearbook) Agriculture yearbook, 1924. Washington, 1925. 1252p.
Only tables containing statistics for years other than those published in later yearbooks are included here: packs of the more important canned fruits and vegetables in 1909, 1919, and 1921 (p.611); commercial crop: acreage, production, and total value, by states, 1922-1924 (p.685); commercial crop: yield per acre and price, 1918-1924 (p.685); and strawberries: carlot shipments by states of origin, for 1917-1924 (p.887).
195. U. S. Dept. of agriculture. (Yearbook) Agriculture yearbook, 1925. Washington, 1926. 1537p.
Fruits and vegetables are stressed in this volume. These special sections have been analyzed elsewhere in this list under the authors' names.
In addition to these special sections tables containing strawberry statistics are given as follows: commercial acreage and production of truck crops in the United States for the years 1919-1925 (p.941-942); strawberries, commercial crop: acreage, production, and total value by states, 1923-1925 (p.886); and commercial crop: yield per acre and price, 1919-1925 (p.887).
Pages 859-946 of this yearbook are also published as Yearbook Separate 921, with the title Statistics of Fruits and Vegetables. Pages 628-710 are published as Yearbook Separate 930, with the title Marketing Fruits and Vegetables. Pages 151-452 are published as Yearbook Separate 931; with the title: Fruit and Vegetable Production.
196. U. S. Dept. of agriculture. Yearbook of agriculture, 1926. Washington, 1927. 1982p.
Only tables containing strawberry statistics for years other than those in the 1927 and 1928 Yearbooks of agriculture are listed here: Crop summary: acreage, production and farm value, 1924-1926 (p.1203).
197. U. S. Dept of agriculture. Yearbook of agriculture, 1927. Washington, 1928. 1234p.
Only tables containing statistics for years other than those published in the 1928 Yearbook of agriculture are listed here: commercial acreage and production of truck crops in the United States

for the years 1921-1927 (p.903); strawberries: average l.c.l. prices to jobbers per quart at 10 markets, 1921-1927 (p.860); and strawberries: commercial crop: acreage, production, and price per quart, by states, 1924-1927 (p.859).

198. U. S. Dept. of agriculture. Yearbook of agriculture, 1928. Washington, 1929. 1145p.

The tables containing statistics relating to strawberries are: commercial acreage and production of truck crops in the United States for the years 1922-1928 (p.825); map showing strawberry acreage for 1924 (p.659); strawberries: average l.c.l. price to jobbers per quart at 10 markets, 1927-1928 (p.785); strawberries; carlot shipments, by states of origin, for 1920-1928 (p.785); and strawberries, commercial crop: acreage, production, and price per quart, by states, 1925-1928 (p.784).

199. U. S. Dept. of agriculture. Bureau of agricultural economics. Daily market reports. Strawberries, 1919 to date. Washington, D. C. Mimeo graphed. 1.9 Ec742D

1919-20 published by Bureau of Markets. 1921 published by Bureau of Markets and Crop Estimates.

Issued during season.

Daily market reports of perishable fruits and vegetables "are issued from permanent market stations located in 18 of the larger cities of the United States, including Washington, D. C., and from numerous temporary field stations in various producing areas during crop movement. They contain: 1. Telegraphic reports from many important markets giving the number of cars of each commodity received daily, the state of origin of these commodities, prevailing jobbing prices, quality and condition of receipts, and marketing and weather conditions.- 2. Telegraphic reports from all railroads handling the crops in question, giving shipments from each State up to midnight of the night before.- 3. Numerous f. o. b. prices from representatives of the bureau in producing areas." - U. S. Dept. of agriculture. Bureau of agricultural economics. Division of economic information. Periodical reports, Feb. 1927, p.3-4.

200. U. S. Dept. of agriculture. Bureau of agricultural economics. Summary of the New York City market on New Jersey fruits and vegetables, season 1924. New York City, 1925. 11p. Mimeo graphed.

Gives the supply and demand, market conditions and prices together with prices for the last season of various fruits and vegetables. Quotations daily during season.

Gives also "New Jersey carlot shipments of fruits and vegetables 1921-24", which include strawberries.

201. U. S. Dept. of agriculture. Bureau of agricultural economics. U. S. standards for strawberries (1928) (Washington, D. C., 1928) 2p. Mimeo graphed. 1.9 Ec74S

202. U. S. Dept. of agriculture. Bureau of agricultural economics. Division of cooperative marketing. Beginnings of cooperative fruit and vegetables marketing, a preliminary report. By Chastina Gardner. Washington, D. C., 1928. 23p. Mimeographed. 1.9 Ec723Bc
Strawberries in Missouri: p.13-14.
203. U. S. Dept. of agriculture. Bureau of agricultural economics. Division of fruits and vegetables. Marketing the strawberry crop. A radio talk, by F. G. Robb... May 14, 1929. (Washington, D. C., 1929) 2p. Mincographed. 1.9 Ec7Ra
204. U. S. Dept. of agriculture. Bureau of agricultural economics. Division of fruits and vegetables. (Strawberry deals) Washington, D. C. 1921-1928. Mincographed. 1.9 Ec741L
Northwestern Arkansas and southwestern Missouri strawberry deal, season 1923. Summary by W. J. Bertush. 1923.
White County, Arkansas, strawberry deal, season 1923. Summary by W. H. Mosier. 1923.
White County, Arkansas, strawberry deal, season 1924. Summary by R. L. Sutton. (1924)
Marketing the White County, Arkansas, strawberry crop, season 1926. Summary by W. G. Lensen. 1927.
Marketing the (White County) Arkansas, strawberry crop, summary of 1927 season. By R. E. Corbin. 1928.
Eastern Shore, Virginia, Maryland and Delaware. Strawberry season, 1925. (By E. R. Biddle, and W. F. Cox) (1925)
Marketing Eastern Shore of Virginia, Maryland, and Delaware strawberries, season of 1926. Summary by H. W. Schneck. 1927.
Marketing eastern shore strawberries (Delaware, Maryland, and Virginia) summary of 1928 season. By John W. Coleman. 1929.
Kentucky and North Tennessee strawberry deal, 1923 season. Summary by H. J. Clay. 1924.
Kentucky - North Tennessee strawberry deal, season 1924. Summary by G. D. Clark. 1925.
Louisiana strawberry deal, season 1923. Summary by G. E. Prince. 1923.
Louisiana strawberry deal, season 1925. Summary by A. E. Prugh. 1926.
Marketing Louisiana strawberries, summary of 1927 season. By W. F. Cox. 1928.
Marketing Louisiana strawberries, summary of 1928 season. By H. F. Willson. 1929.
The Missouri strawberry deal, season 1925. Summary by G. E. Prince. 1926.
Marketing Missouri strawberries, season of 1926. Summary by W.H. Mosier. 1927.
Chadbourn, N.C. strawberry deal, season 1923. Summary by J. D. Snow. 1923.
North Carolina strawberry deal, season 1924. Summary by V. D. Callanan. 1925.

North Carolina strawberry deal (season 1925) summary by H. E. Rutland, 1925.

Marketing North Carolina strawberries, 1926 season. Summary by R. H. Lamb. 1927.

Marketing North Carolina strawberries, summary of 1927 season. By H. F. Willson. 1927.

Marketing North Carolina strawberries, summary of 1928 season. By R. E. Corbin. 1929.

Summary of the Ozark strawberry deal, season 1924. By A. E. Prugh. 1925.

Marketing strawberries from the Ozark section of Missouri and Arkansas, summary of 1927 season. By Wendell Calhoun. 1928.

Marketing strawberries from the Ozark section of Missouri and Arkansas, summary of 1928 season. By Wendell Calhoun. 1929.

Strawberries. Special summary, Philadelphia market, season 1925. (1925)

Philadelphia strawberry market, season 1926. Review compiled by E. R. Biddle, and J. W. Coleman. (1926)

Summary of the 1921 West Tennessee strawberry season. (1921)
Western Tennessee strawberry deal, 1924 season. Summary by R. H. Lamb. 1925.

The Western Tennessee strawberry deal, season 1925. Summary by G. D. Clark. 1926.

These mimeographed reports contain various kinds of statistics such as commercial acreage, yield per acre, and estimated production of strawberries, carlot shipments, prices, carlot arrivals, freight rates, and carlot unloads. The reports vary. All of the information noted is not given in every report. The later reports are more complete.

205. U. S. Dept. of agriculture. Bureau of agricultural economics. Division of fruits and vegetables. Summary of important fruits and vegetables in California, Arizona and Nevada, 1925-1927, by billing stations and including both interstate and intrastate shipments as reported by mail and telegraph by the common carriers. Los Angeles Calif., 1926-1928. Mimeographed. 1.9 Ec741S

Includes data on strawberries.

1925-1926 compiled by Homer A. Harris and Opal V. Yeoman, 1927
by Opal V. Yeoman.

206. U. S. Dept. of agriculture. Bureau of agricultural economics. Division of fruits and vegetables. Unloads of fruits and vegetables at various cities. (Washington, D. C., 1913-29) Mimeographed. 1.9 Ec741U

Reports are given for numerous cities for the years 1913-1928, but the list of cities varies with each year. These annual summaries contain monthly summaries also.

Strawberries are among the fruits for which statistics are given.

207. U. S. Dept. of agriculture. Bureau of agricultural economics. Market news service. Carlot arrivals of fruits and vegetables for New York City, year of 1927. New York City, 1928. 30p. Mimeographed. 1.9 Ec742F
Strawberries: p.3, 25.
208. U. S. Dept. of agriculture. Bureau of agricultural economics. Market news service. Car-lot shipments (of fruits and vegetables) by states of origin. (Washington, D. C., 1927-1928). Mimeographed. 1.9 Ec742Ca
Includes shipments of strawberries.
209. U. S. Dept. of agriculture. Bureau of agricultural economics. Market news service. Receipts of fruits and vegetables in New York City, calendar year, 1923. As reported by common carriers... New York City, 1924. 6p. Mimeographed. 1.9 Ec742F
Includes strawberries.
210. U. S. Dept. of agriculture. Bureau of agricultural economics. Market news service. Strawberries in 1928. Washington, D. C., 1928. 7p. Mimeographed. 1.9 Ec742St
Includes statistics showing commercial acreage and production of strawberries, by states, 1925 to 1927; acreage, indicated yield per acre, and forecast of production in early states, 1928; carlot shipments by states, 1922-1927; carlot unloads at prominent markets, 1923-1927; weekly carload shipments by states of origin, March 19 to June 11, 1927; average L.C.L. prices to jobbers in eight city markets; and carlot shipments from prominent stations.
211. U. S. Dept. of agriculture. Bureau of agricultural economics. Market news service. Strawberries in 1929. Washington, D. C., 1929. 7p. Mimeographed. 1.9 Ec742St
Includes statistics showing commercial acreage and production, by states, 1926-1928 with preliminary acreage for 1929; acreage, yield per acre, and production, by states, 1928-1929; carlot shipments, by states, 1922-1928; carlot unloads at prominent markets, 1923-1928; weekly carload shipments by states of origin, March 31, to June 23, 1928; acreage and forecast of production in second-early states; 1929; average L.C.L. prices to jobbers in eight city markets, 1921-1928; and carlot shipments from prominent stations, 1925-1928.
212. U. S. Dept. of agriculture. Bureau of agricultural economics. Market news service. Weekly market review of fruits and vegetables. Shipments... and prices to jobbers, May 22, 1917-date. Washington, D. C., 1917-date. Mimeographed. 1.9 Ec742Wm.
May 22, 1917 is first number published.
"On Feb. 3, 1920, this report combined with Weekly Truck Crop News issued by the Bureau of crop estimates to form Weekly Crop

and Market Review of Fruits and Vegetables. On April 27, 1920, the Weekly Truck Crop News was discontinued and the title changed back to Weekly Review of Fruits and Vegetables."

In other years title varies slightly.

May 27, 1917-Feb. 3, 1920 and Apr. 27, 1920-June 28, 1921 published by Bureau of Markets. July 5, 1921-June 27, 1922 published by Bureau of Markets and Crop Estimates.

"Summarized crop and market conditions, current supplies, and prices of perishable fruits including strawberries and vegetables." U. S. Dept. of agriculture. Bureau of agricultural economics. Division of economic information. Periodical reports... Feb. 1927, p.4.

213. U. S. Dept. of agriculture. Bureau of agricultural economics. Market news service. Weekly summary of carlot shipments as reported telegraphically by the common carriers to the Bureau of agricultural economics, May 1, 1917-date. Washington, D. C., 1917-date Micrographed. 1.9 Ec742Wn.

May 1, 1917-June 26, 1917, published by Office of Markets and Rural Organization. July 3, 1917-June 28, 1921, published by Bureau of Markets. July 5, 1921-June 27, 1922, published by Bureau of Markets and Crop Estimates.

In early issues title varies slightly.

"The total number of cars shipped from leading States, by weeks and shipping seasons, as reported telegraphically daily to this bureau by transportation companies is given in this summary. Monthly summaries of shipments are published in Crops and Markets." U. S. Dept. of agriculture. Bureau of agricultural economics. Division of economic information. Periodical reports... Feb. 1927, p.4.

Statistics on strawberries are given during the season.

214. U. S. Dept. of agriculture. Bureau of markets. Short week end review of fruits and vegetables, Aug. 16, 1918-Aug. 13, 1920. Washington, D. C., 1918-1920.

Gives shipments and prices of vegetables and fruit (including strawberries).

215. U. S. Dept. of agriculture. Bureau of markets. Food products, inspection service. Strawberries. Washington, D. C., 1918. 10p. (Its Products Circ. 3)

Contains table showing producing section, shipping season, principal varieties, packages used, principal markets, and number of cars shipped, 1915.

Also discusses commercial grades, methods of inspection, etc.

216. U. S. Dept. of agriculture. Bureau of statistics. Crop reporter, v.1, no. 1, May, 1899-v.15, no.6, June, 1913. Washington, 1899-1913.

Continued by the Agricultural Outlook.

Some volumes are indexed.

This monthly publication contains the following statistics which include data on strawberries: acreage, production and value of all

crops in the United States: 1909 and 1899 (Census figures), Jan., 1913, p.8; scope of monthly crop inquiries, Jan. 1912, p.1, Dec. 1912, p.90; statistics of production of fruit and nuts in continental United States, June, 1912, p.47; Florida crop report found in the Apr. or May issues of 1908-1913; and crop conditions on July 1 found in the July issues of 1906-1907, 1909-1912.

217. U. S. Dept. of commerce. Foodstuffs 'round the world. Fresh fruits (bi-weekly) Mar. 20, 1925-date. (Washington, D. C., 1925-date) 157.54 F73)

"A ... news release embodying reports submitted to the Dept. of Commerce by foreign representatives of the Departments of Commerce and State."

Includes information on foreign trade opportunities; the market for United States fruits in various cities of the world; and imports from and exports into different countries, of various kinds of fruits (including strawberries).

218. U. S. shipping board. Merchant fleet corporation. Specifications for fresh fruits and vegetables for use by cargo vessels. Issued by Supply department, Washington, D. C., March 31, 1927. Revised July 15, 1927. Pan. Coll.

Strawberries: p.6.

219. U. S. standards for strawberries (1928) (In Hoosier Horticulture, v.10, no.5, May, 1928, p. 73-75; also in Better Fruit, v.22, no. 12, June 1928, p.22)

220. Utah Agricultural experiment station. Biennial report of director, July 1, 1926-June 30, 1928. Logan, 1929. 83p. (Its bul. 209)
Cost of producing strawberries: p.62.

221. Warder, J. A. Strawberries. Washington, 1862. p.175-189. (U. S. Commissioner of patents. Report, 1861)
Produce and profits: p.185-187.

222. Waugh, F. A. Fruit harvesting, storing, marketing; a practical guide to the picking, sorting, packing, storing, shipping, and marketing of fruit. New York, Orange Judd company, 1901. 221 p. 93 W358F
Includes information on strawberries.

223. Waugh, F. A. Packing and marketing fruits; how fruits should be handled to carry to market in best condition and present most attractive appearance. St. Joseph, Mo., The Fruit-grower company, 1905 63 p. ("Brother Jonathan series"- no. 5) 93 W358P

224. Waugh, F. V. Retail margins on farm produce in Trenton, New Jersey. Trenton, 1925. 33p. (N. J. Dept. agr. Circ. 86)

Tables containing statistics relating to strawberries are: average margins in twenty Trenton stores September, 1923, to June, 1924; retail margins in Trenton; relation of margins to the number of retail units in the wholesale package and to the retail price; percentage retail margins, average margins made by 20 Trenton stores, Sept. 1923 to June, 1924; retail margins related to size and value of sales; percentage margins estimated by formula on the basis of unit of sale and value of sale; method of weighing margins to make average; coefficients of dispersion in percentage and cents margins made on various commodities. Average of twenty stores in Trenton, N. J.; and average retail margins in Trenton N. J. September, 1923 to June, 1924. Comparison of margins in different stores.

225. West, C. J., and Flohr, L. B. Market statistics. Washington, D. C., 1921. 279p. (U. S. Dept. agr. Bul. 982)

The section on fruits and vegetables includes statistics on strawberries. Gives "monthly range and average jobbing prices, per quart, at ten markets, 1919 and 1920; monthly and yearly carlot shipments, by States of origin, 1917 to 1920; monthly and yearly unloads of ten markets, by States of origin, in carlots, 1916 to 1920."

226. Wicks, W. H. Strawberry growing in Arkansas. Fayetteville, 1915. 48p. (Ark. Agr. exp. sta. Bul. 122)

Includes information on practical carriers, packing, grading and loading a refrigerator car; instructions to shippers, marketing; and cost of production, yields and returns.

Also gives the by-laws of the Judsonia Fruit and Vegetable Growers' Association and the Ozark Fruit Growers' Association.

227. Wilkinson, A. E. Modern strawberry growing, Garden City, New York, Doubleday, Page & company, 1913. 210p. 94 W65

Has chapters on: picking, packing, and marketing; scoring and judging; and costs, yields, and profits.

228. Woodworth, H. C., Lincoln, L.B., and Richards, H. I. "Can New Hampshire produce more of what she eats?" An economic survey of the demand for certain commodities as indicated by the purchases of retail stores, hotels and camps within the state. Durham, 1926. (47) p. (N. H. Agr. exp. sta. Bul. 22)

Statistics containing data on strawberries are to be found in the following tables: chart showing percent of total purchases of farm products from farmers and others; seasonal distribution of strawberry purchases from other than local farmers, by several New Hampshire stores and wholesale companies, 1925; purchases of agricultural products in the state of New Hampshire by retail stores, hotels and camps from farmers and from others in 1925, dur-

ing competing and non-competing season; berries - purchases by retail stores, hotels and camps from farmers and from others; chart showing seasonal distribution of strawberry purchases from other than local farmers, by one company in Concord, N. H., 1924 and 1925; chart showing weekly wholesale prices of strawberries per quart on Manchester, Concord, and Boston markets, 1921-1925; purchases by White Mountain hotels of various commodities from local farmers and from others, by weeks, for the year 1925; and purchases of agricultural products in sixteen New Hampshire cities and towns by retail stores from farmers and from others in 1925.

229. Woolsey, C. . . Strawberry culture. Blacksburg, 1919. 16p. (Va. Agr. and mech. coll. and polytechn. inst. Ext. div. bul. 36).
Issued in cooperation with the U. S. Dept. of agriculture.
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230. Wright, R. C. and Taylor, G. F. The freezing temperatures of some fruits, vegetables, and cut flowers. Washington, D. C., 1929. 8p. (U. S. Dept. Agr. Bul. 1133.rev.)
Freezing points of strawberries are found on p.4-5.

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